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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,987	08/16/2004	Makoto Izawa	27592-01101-US1	4986
	7590 06/23/200 OVE LODGE & HUT		EXAMINER	
1875 EYE STREET, N.W. SUITE 1100 WASHINGTON, DC 20006			GELAGAY, SHEWAYE	
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			2437	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/710,987	IZAWA ET AL.	
Office Action Summary	Examiner	Art Unit	
	SHEWAYE GELAGAY	2437	
The MAILING DATE of this communication ap Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tire I will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 21 A This action is FINAL . 2b) ☑ This Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1,2 and 4-18 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-2 and 4-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptable approach and acceptable approach acceptable approach and acceptable approach acceptable approach acceptable approach acceptable approach acceptable approach acceptable approach acceptable accept	or election requirement.	Examiner.	
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applicat Drity documents have been receive Au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/21/09 has been entered.

2. Claims 1-2 and 4-6 have been amended. Claim 3 is cancelled. New claims 7-18 have been added. Claims 1-2 and 4-18 are pending.

Response to Arguments

3. Applicant's arguments filed on April 21, 2009 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-2, 4-9 and 12-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al. (hereinafter Yamaguchi) US Patent Number 5,604,807 in view of Keromytis et al. (hereinafter Keromytis) "Transparent Network Security Policy Enforcement", USENIX 2000 and in view Inada et al. (hereinafter Inada) US 6,775,769.

6. As per claims 1, 5, 14 and 18:

Yamaguchi teaches a central encryption management system, comprising:
an encryption apparatus configured to be connected between a plurality of data
communications terminals, (Figure 12, item 53, 54 and 55)

the encryption apparatus to perform at least one of an encrypting process or a decrypting process on data to terminate encryption-based security between communications terminals having encrypting capability and non-encrypting capability; (Figure 12, item 76) and

a manager terminal to input information into each of the encryption apparatus and the communication terminals having encrypting capability, the information including a time period of encryption, thereby completing settings for encrypted data communications on each of the apparatus and the communications terminals having encrypting capability; (Figure 12, item 51; Figure 13; col. 3, line 62-col. 4, line 20; col. 12, lines 50-64; col. 13, line 60-col. 14, line 12)

Yamaguchi does not explicitly disclose wherein the encryption apparatus further includes a bridge to output data received on one of a plurality ports of the encryption apparatus to another port of the encryption apparatus, without any routing process, after

the encrypting or decrypting process; and information including whether or not data packets are to be discarded between specific terminals after the data packets have been received. Keromytis in analogous art, however, teaches wherein the encryption apparatus further includes a bridge to output data received on one of a plurality ports of the encryption apparatus to another port of the encryption apparatus, without any routing process, after the encrypting or decrypting process. (2.1 Layer-3Filtering; 2.2 Layer-2 Filtering; 2.4 Bridge Security; 3.Bridging and IPsec) Therefore it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the system disclosed by Yamaguchi with Keromytis in order to provide transparent IPsec gateway capability for a host or even a network wherein the security gateway can act as a security policy enforcer, ensuring that incoming and outgoing packets are adequately protected, based on system or network policy. (1. Introduction; Keromytis)

Both references do not explicitly disclose information including whether or not data packets are to be discarded between specific terminals after the data packets have been received. Inada in analogous art, however, discloses information including whether or not data packets are to be discarded between specific terminals after the data packets have been received. (col. 5, line 25- col. 6, line 65; col. 15, line 25-col. 16, line 56; col. 17, lines24-63) Therefore it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the system disclosed by Yamaguchi and Keromytis with Inada in order to manage the operation of the cryptographic apparatus by processing a management packet for managing the

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cryptographic apparatus from another machine connected to the network. (col. 17, lines 58-63; Inada)

As per claims 2 and 15:

The combination of Yamaguchi, Keromytis and Inada teaches all the subject matter as discussed above. In addition, Yamaguchi further discloses a central encryption management system the encryption apparatus configured to receive and retransmit data in the form of encrypted data from and to one of the plurality of communications terminals having the encrypting capability, and the encryption apparatus is configured to receive and retransmit the data in the form of non-encrypted data from and to one of the plurality of communications terminals having no encrypting capability. (col. 12, lines 50-64)

As per claims 4, 6 and 16:

The combination of Yamaguchi, Keromytis and Inada teaches all the subject matter as discussed above. In addition, Yamaguchi further discloses a central encryption management system wherein the encryption apparatus further includes a storage to store the information inputted from the manager terminal, the inputted information being used when controlling the encrypting process and the decrypting process, and the encryption apparatus controls the encrypting process and the decrypting process by comparing the information stored in the storage with header information of a data packet of the data received through one of the plurality of ports. (col. 11, line 44-col. 12, line 45)

As per claim 7:

The combination of Yamaguchi, Keromytis and Inada teaches all the subject matter as discussed above. In addition, Yamaguchi further discloses a central encryption management system wherein the information comprises at least one of information associated with the presence or absence of encryption or decryption process, the availability of packet communications, an encryption level, a time period to perform encryption, a encryption policy or an encryption key. (Figure 12, item 51; Figure 13; col. 3, line 62-col. 4, line 20; col. 12, lines 50-64; col. 13, line 60-col. 14, line 12)

As per claim 8:

The combination of Yamaguchi, Keromytis and Inada teaches all the subject matter as discussed above. In addition, Inada further discloses wherein the at least one of the plurality of communications terminals are inside a secured network. (Figure 12)

As per claim 9:

The combination of Yamaguchi, Keromytis and Inada teaches all the subject matter as discussed above. In addition, Inada further discloses wherein the at least one of the plurality of communications terminals is outside secured network. (Figure 12)

As per claim 12:

The combination of Yamaguchi, Keromytis and Inada teaches all the subject matter as discussed above. In addition, Yamaguchi further discloses a central encryption management system wherein the plurality of communications terminals are arranged in a plurality of local area networks. (Figure 12, item 51; Figure 13; col. 3, line 62-col. 4, line 20; col. 12, lines 50-64; col. 13, line 60-col. 14, line 12)

As per claim 13:

The combination of Yamaguchi, Keromytis and Inada teaches all the subject matter as discussed above. In addition, Yamaguchi further discloses a central encryption management system wherein comprising a plurality o f manager terminals, each of the plurality o f manager terminals to manage encryption and decryption settings in the communications terminals having encrypting capabilities in at least one of the plurality of local area networks. (Figure 12, item 51; Figure 13; col. 3, line 62-col. 4, line 20; col. 12, lines 50-64; col. 13, line 60-col. 14, line 12)

As per claim 17:

The combination of Yamaguchi, Keromytis and Inada teaches all the subject matter as discussed above. In addition, Keromytis further discloses performing an encrypting process or a decrypting process on data received at one of the plurality of ports after passing through a data link layer and a physical layer; and outputting encrypted or decrypted data from another of the plurality of ports through a data link layer and a physical layer associated with the other port without passing said data to a network layer in which routing between networks are controlled. (2.1 Layer-3Filtering; 2.2 Layer-2 Filtering; 2.4 Bridge Security; 3.Bridging and IPsec)

7. Claims 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al. (hereinafter Yamaguchi) US Patent Number 5,604,807 in view of Keromytis et al. (hereinafter Keromytis) "Transparent Network Security Policy Enforcement", USENIX 2000 and in view Inada et al. (hereinafter Inada) US 6,775,769 and in view of Doiron et al. (hereinafter Doiron) US 5,481,610.

As per claim 10:

The combination of Yamaguchi, Keromytis and Inada teaches all the subject matter as discussed above. None of the combination cited explicitly disclose wherein the encryption apparatus comprises a data path for a connected terminal and performs the encryption process or the decryption process on data received or transmitted on each data path using a different encryption key associated with the connected terminal. Doiron in analogous art, however, discloses wherein the encryption apparatus comprises a data path for a connected terminal and performs the encryption process or the decryption process on data received or transmitted on each data path using a different encryption key associated with the connected terminal. (col. 7, line 29-col. 8, line 33) Therefore it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the system disclosed by Yamaguchi, Keromytis and Inada with Doiron in order to protect the data path by preventing signal analysis thereby avoiding revealing the cryptographic keys. (col. 8, lines 21-23; Doiron)

As per claim 11:

The combination of Yamaguchi, Keromytis and Inada teaches all the subject matter as discussed above. None of the combination cited explicitly disclose wherein the encryption apparatus comprises wherein the plurality of communications terminals having encrypting capability are connected to the encryption apparatus through an access point. Doiron in analogous art, however, discloses wherein the encryption apparatus comprises wherein the plurality of communications terminals having encrypting capability are connected to the encryption apparatus through an access point. (col. 3, lines 3-35) Therefore it would have been obvious to one ordinary skill in

the art at the time the invention was made to modify the system disclosed by Yamaguchi, Keromytis and Inada with Doiron in order to provide a secure radio frequency communications system that encrypts and decrypts messages. (col.1, lines 5-10; Doiron)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHEWAYE GELAGAY whose telephone number is (571)272-4219. The examiner can normally be reached on 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Examiner, Art Unit 2437

/Emmanuel L. Moise/ Supervisory Patent Examiner, Art Unit 2437